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Development of Satellite data manipulator for geography analysis

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ALOS (Advanced Land Observing Satellite: common name ”Daichi”) carried the sensor PRISM which can observe earth surface in high accuracy, and enabled acquisition of DSM (Digital Surface Model) data. By utilizing the data acquired by such an advanced sensor, it becomes possible to display high-precision three-dimensional satellite data. Using satellite data as three dimensions means expansion of the utilization range, and it can expect unprecedented multi-functionalization. Furthermore, three-dimensional satellite data was displayed on iPad interlocked with GPS in various satellite data including ALOS data, and ”Geo-Sim” which can be used also in area without communication environment was developed. Thereby, the generating situation of a mudflow or the ancient coastline is reproduced by CG, and the matching operation on-site becomes possible.

Keywords: ALOS, AVNIR-2, PRISM/DSM, DEM, Geo-Sim

Fig.1. Manipulation of 3D data on iPad display